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U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE FOREST PRODUCTS LABORATORY MADISON, WIS.

In Cooperation with the University of Wisconsin

APR 29 '77

LIST OF PUBLICATIONS ON GLUES AND GLUED PRODUCTS

This list includes publications that present the results of research by the Forest Products Laboratory in this particular field of wood products research.

Single copies of the various items may be obtained free upon request from the Director, Forest Products Laboratory, Post Office Box 5130, Madison, WI 53705. Classroom quantities are not available because of limited printing and storage facilities.

Title	Author	Publication and Date
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TYPES OF GLUES AND THEIR CHARACTERISTICS

Adhesives for pallets.	: Kurtenacker, R. S.	: USDA Forest Serv. Res.
	:	: Pap. FPL 209. 1973.
Mastic construction adhesives in fire exposure.	: River, B. H.	: USDA Forest Serv. Res.
	:	: Pap. FPL 198. 1973.
Elastomeric adhesives in building construction.	: Gillespie, R. H., and	: Building Res.: 11-23.
	: River, B. H.	: Oct.-Dec. 1972.
Evaluation of adhesive-bond quality in telephone crossarms after 16 to 23 years exterior exposure.	: Jokerst, R. W.	: USDA Forest Serv. Res.
	:	: Pap. FPL 171. 1972.
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Title	Author	Publication and Date
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TYPES OF GLUES AND THEIR CHARACTERISTICS--Cont.

Evaluating adhesives for building construction.	: Gillespie, R. H., and : : Lewis, W. C.	: U.S. Forest Serv. Res. : : Pap. FPL 172. 1972.
Tensile stress-strain behavior of flexibilized epoxy adhesive films.	: Simpson, W. T., and : : Soper, V. R.	: U.S. Forest Serv. Res. : : Pap. FPL 126. 1970.
Flourescence microscopy for detecting adhesives on fracture surfaces.	: Quirk, J. T.	: U.S. Forest Serv. Res. : : Note FPL-0191. 1968.
Stress-strain behavior of films of four adhesives used with wood.	: Simpson, W. T., and : : Soper, V. R.	: U.S. Forest Serv. Res. : : Note FPL-0198. 1968.
Measurement of uniaxial creep of selected adhesives in free film form.	: Tellman, S. J., : : Kutscha, D., and : : Soper, V. R.	: U.S. Forest Serv. Res. : : Note FPL-0157. 1967.
Synthetic resin glues.	: Forest Products : : Laboratory	: U.S. Forest Serv. Res. : : Note FPL-0141. 1966.
Selection and properties of wood working glues.	: Forest Products : : Laboratory	: U.S. Forest Serv. Res. : : Note FPL-0138. 1966.

GLUING OF WOOD

*Adhesive bonding of wood.	: Selbo, M. L.	: USDA Tech. Bull.
	:	: No. 1512. 1975.
	:	: Copies may be obtained
	:	: from the Superintendent
	:	: of Documents, GPO,
	:	: Washington, D.C. 20402.
	:	: Price - \$1.55.
Surface damage before gluing-- weak joints.	: River, B. H., and : : Miniutti, V. P.	: Wood and Wood Products : : 80(7):35-36, 38. 1975.
Tensile strength of finger joints in pith-associated and nonpith-associated southern pine.	: Moody, R. C.	: U.S. Forest Serv. Res. : : Pap. FPL 138. 1970.

*Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Title	Author	Publication and Date
<u>GLUING OF WOOD--Cont.</u>		
Fatigue strength of finger joints.	: Bohannon, B., and : Kanvik, K.	: U.S. Forest Serv. Res. : Note FPL- 114. 1969.
Contribution of end-wall and lumen bonding to strength of butt joints.	: Quirk, J. T., : Kozlowski, T. T., and : Blomquist, R. F.	: U.S. Forest Serv. Res. : Note FPL-0179. 1968. :
Parameters for determining heat and moisture resistance of: a urea-resin in plywood joints.:	: Gillespie, R. H.	: Forest Prod. J. 18(8): : 35-41. Aug. 1968. :
Location of failure in adhesive-bonded butt joints.	: Quirk, J. T., : Kozlowski, T. T., and : Blomquist, R. F.	: U.S. Forest Serv. Res. : Note FPL-0177. 1967. :
Gluing ammonium-salt treated southern pine with resorcinol-resin adhesives.	: Schaeffer, R. E. :	: U.S. Forest Serv. Res. : Note FPL-0151. 1967. :
Preliminary study of the gluing of ammonium salt-treated: wood with resorcinol-resin glues.	: Schaeffer, R. E. : :	: U.S. Forest Serv. Res. : Note FPL-0112. 1966. : :
Behavior of an epoxy-polysulfide adhesive in wood joints exposed to moisture content changes.	: Krueger, G. P. : : :	: U.S. Forest Serv. Res. : Pap. FPL 24. 1965. : :
Device for estimating wood or glue failure in glue block shear tests.	: Forest Products : Laboratory :	: U.S. Forest Serv. Res. : Note FPL-0102. 1965. :
Experimental techniques for determining mechanical behavior: of flexible structural adhesives in timber joints.	: Krueger, G. P., and : Blomquist, R. F. : :	: U.S. Forest Serv. Res. : Pap. FPL 21. 1965. : :

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GLUING OF WOOD--Cont.

Performance of a rigid and a flexible adhesive in lumber joints subjected to moisture content changes.	:	Krueger, G. P., and Blomquist, R. F.	:	U.S. Forest Serv. Res. Note FPL-076. 1964.
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GLUING OF MATERIALS OTHER THAN WOOD

(Metals, Plastics, etc.)

Adhesives for bonding wood to metal.	:	Forest Products Laboratory	:	U.S. Forest Serv. Res. Note FPL-082. 1964.
Importance of balanced construction in plastic-faced wood panels.	:	Heebink, B. G.	:	U.S. Forest Serv. Res. Note FPL-021. 1963.
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DURABILITY OF GLUES

Durability of adhesives in plywood: Dry-heat effects by rate-process analysis.	:	Gillespie, R. H., and River, B. H.	:	Forest Prod. J. 25(7): 26-32. 1975.
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Performance of melamine-resin adhesives in various exposures.	:	Selbo, M. L.	:	Forest Prod. J. 15(12): 475-483. Dec. 1965.
Accelerated aging of adhesives in plywood-type joints.	:	Gillespie, R. H.	:	Forest Prod. J. 15(9): 369-378. Sept. 1965.
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Durability of fortified urea-resin glues exposed to exterior weathering.	:	Blomquist, R. F., and Olson, W. Z.	:	Forest Prod. J. 14(10): 461-466. Oct. 1964.
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Durability of urea-resin glues modified with polyvinyl acetate and blood.	:	Gillespie, R. H., Olson, W. Z., and Blomquist, R. F.	:	Forest Prod. J. 14(8): 343-349. Aug. 1964.
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LAMINATED WOOD AND GLUED ASSEMBLIES

Design criteria for large structural glued-laminated timber beams using mixed species of visually graded lumber.	: Moody, R. C.	: U.S. Forest Serv. Res. Pap. FPL 236. 1974.
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Bending strength and stiffness of bridge piles after 85 years in the Milwaukee river.	: Bendtsen, B. A.	: U.S. Forest Serv. Res. Note FPL-0229. 1974.
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Simplified design procedure for glued-laminated bridge decks.	: McCutcheon, W. J., and Tuomi, R. L.	: U.S. Forest Serv. Res. Pap. FPL 233. 1974.
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Procedure for design of glued-laminated orthotropic bridge decks.	: McCutcheon, W. J., and Tuomi, R. L.	: U.S. Forest Serv. Res. Pap. FPL 210. 1973.
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Design procedure for glued-laminated bridge decks.	: Tuomi, R. L., and McCutcheon, W. J.	: Forest Prod. J. 23(6): 36-42. June 1973.
Evolution of glulam strength criteria.	: Bohannon, B., and Moody, R. C.	: Forest Prod. J. 23(6): 19-24. June 1973.
Feasibility of producing a high-yield laminated structural product: Strength properties of rotary knife-cut laminated southern pine.	: Moody, R. C., and Peters, C. C.	: U.S. Forest Serv. Res. Pap. FPL 178. 1972.
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FPL Press-Lam process: Fast, efficient, conversion of logs into structural products.	: FPL Press-Lam Research Team	: Forest Prod. J. 21(11): 11-18. Nov. 1972.
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Tensile strength of lumber laminated from 1/8-inch thick veneers.	: Moody, R. C.	: U.S. Forest Serv. Res. Pap. FPL 181. 1972.
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Strength criteria of glued-laminated timber.	: Bohannon, B.	: Nat. Bur. of Stand. Spec. Publ. 361. Vol. 1: 625-632 Mar. 1972.
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LAMINATED WOOD AND GLUED ASSEMBLIES--Cont.

Feasibility of producing a high-yield laminated structural product: Residual heat of drying accelerates adhesive cure.	: Jokerst, R. W.	: U.S. Forest Serv. Res. Pap. FPL 179. 1972.
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Feasibility of producing a high-yield laminated structural product--general summary.	: Schaffer, E. L., : Jokerst, R. W., : Moody, R. C., : Peters, C. C., : Tschernitz, J. L., and: : Zahn, J. J.	: U.S. Forest Serv. Res. Pap. FPL 175. 1971.
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Rapid production of pallet deck-boards from low-grade logs.	: Hann, R. A., : Jokerst, R. W., : Kurtenacker, R. S., : Peters, C. C., and : Tschernitz, J. L.	: U.S. Forest Serv. Res. Pap. FPL 154. 1971.
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Flexural properties of glued laminated southern pine beams with laminations positioned by visual-stiffness criteria.	: Moody, R. C., and : Bohannan, B.	: U.S. Forest Serv. Res. Pap. FPL 127. 1970.
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Glued-laminated timber research at the Forest Products Laboratory.	: Moody, R. C.	: Forest Prod. J. 29(9): 81-86. Sept. 1970.
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Moisture content of laminated timbers.	: Hann, R. A., : Oviatt, A. E., : Markstrom, D. M., and : Duff, J. E.	: U.S. Forest Serv. Res. Pap. FPL 149. 1970.
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Large glued-laminated timber beams with AITC 301A-69 grade tension laminations.	: Moody, R. C., and : Bohannan, B.	: U.S. Forest Serv. Res. Pap. FPL 146. 1970.
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LAMINATED WOOD AND GLUED ASSEMBLIES--Cont.

Cure rate of resorcinol and phenol-resorcinol adhesives in joints of ammonium salt-treated: southern pine.	: Schaeffer, R. E.	: U.S. Forest Serv. Res. Pap. FPL 121. 1970.
Gap-filling adhesives in finger joints.	: Schaeffer, R. E.	: U.S. Forest Serv. Res. Pap. FPL 140. 1970.
Improving end-to-end grain butt joint gluing of white pine.	: Schaeffer, R. E., and Gillespie, R. H.	: Forest Prod. J. 20(6): 39-42. June 1970.
Effects of adhesive formulation and age on strength of bonded butt joints.	: Quirk, J. T., Kozlowski, T. T., and Blomquist, R. F.	: U.S. Forest Serv. Res. Note FPL-0178. 1967.
Long-term effect of preservatives on glue lines in laminated beams.	: Selbo, M. L.	: Forest Prod. J. 17(5): 23-32. May 1967.
Evaluation of commercially made end joints in lumber by three test methods.	: Selbo, M. L., and Bohannon, B.	: U.S. Forest Serv. Res. Pap. FPL 41. 1965.
How to make a laminated diving board.	: Forest Products Laboratory	: U.S. Forest Serv. Res. Note FPL-088. 1965.
Overlays for lumber--an old product in a new dress.	: Fleischer, H. O., and Heebink, B. G.	: U.S. Forest Serv. Res. Note FPL-035. 1964.

MISCELLANEOUS PUBLICATIONS

Systems research sharpens wood-working technology.	: Fleischer, H. O.	: Woodworking & Fun. Dig. 73(2):32-34. Feb. 1971.
Wood in the soaring 70's.	: Fleischer, H. O.	: Woodworking & Furn. Dig. 72(1):36-39. Jan. 1970.
Sawmills of the future.	: Fleischer, H. O.	: So. Lbrmn. 219(2728): 169-171. Dec. 1969.

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MISCELLANEOUS PUBLICATIONS--Cont.

Locating lumber defects by ultrasonics.	: Forest Products Laboratory	: U.S. Forest Serv. Res. Pap. FPL 120. 1969.
Slicing wood one-inch thick:	: Peters, C. C.,	: Forest Prod. J. 19(7):
Four types of pressure bars.	: Mergen, A. F., and	: 47-52. July 1969.
	: Panzer, H. R.	:
Effect of cutting speed during thick slicing of wood.	: Peters, C. C.,	: Forest Prod. J. 19(11):
	: Mergen, A. F., and	: 37-42. Nov. 1969.
	: Panzer, H. R.	:
Wood and the homemaker.	: Forest Products Laboratory	: U.S. Forest Serv. Res. Note FPL-0107. 1965.
Development of an improved system of wood-frame house construction.	: Anderson, L. O.	: U.S. Forest Serv. Res. Pap. FPL 47. 1965.
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U.S. GOVERNMENT PRINTING OFFICE: 1977-750-027/19